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(54) Title: IMPROVEMENTS IN OR RELATING TO POLYMERS

(57) Abstract: Olefin homopolymers and copolymers, including novel products with essentially complete particle to particle homogeneity and having polymer chain defects introduced in a controlled manner across their molecular weight distribution, are prepared by a process comprising polymerisation under essentially constant conditions in a single reactor in the presence of a catalyst system comprising a support material coimpregnated with at least two metallocene olefin polymerisation catalysts having different propensities for incorporation of polymer chain defects.